

**Notice of Allowability**

Application No.

10/043,364

Examiner

VAN H. NGUYEN

Applicant(s)

MORRISON ET AL.

Art Unit

2194

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the telephone interview on 01/30/2007.
2. ☒ The allowed claim(s) is/are 1-7, 9-10, and 35-42 (now renumbered as 1-17).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|  | 9. <input type="checkbox"/> Other _____  |

### **DETAILED ACTION**

1. This communication is responsive to the telephone interview on 01/30/2007.

Claims 1-7, 9-10, and 35-42 are pending in this application. By the Examiner's amendment provided in this office Action, claims 1, 4, 6-7, and 9 have been amended; claims 8 and 11-34 have been cancelled; and new claims 35-42 have been added.

Claims 1-7, 9-10, and 35-42 are allowed.

2. **EXAMINER'S AMENDMENT:**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gary S. Kindness (Reg. No. 22,178) on 01/30/2007.

**The application has been amended as follows:**

**In the Claims:**

**(a) All previous copies of claims 1, 4, 6-7, and 9 have been replaced with the following clean copy of claims 1, 4, 6-7, and 9 as amended by the Examiner's amendment:**

**Claim 1.** A computer-implemented method for running an application using a single framework module including a framework data structure, the framework data structure including an application table and a parameter table, the application table including application table entries, the parameter table including parameter table entries, the method comprising:

- (a) selecting an application table entry;
- (b) collecting data specifying a type of error;
- (c) collecting data specifying a sub-application referenced by the selected application table entry;
- (d) collecting data specifying an error response action; and
- (e) processing the selected application table entry, the processing comprising:
  - (i) running a global initialize function referenced by the selected application table entry, the global initialize function operable to initialize a plurality of threads of the sub-application;

(ii) running the sub-application referenced by the selected application table entry with one or more parameters referenced by one or more parameter table entries;

(iii) if the application table entry being processed references the specified sub-application, and if the specified sub-application generates an error of the specified type, performing the specified error response action; and

(iv) running a global terminate function referenced by the selected application table entry, the global terminate function operable to terminate the plurality of threads of the sub-application.

**Claim 4.** The computer-implemented method of Claim 1 wherein running the sub-application comprises:

(a) accessing from the selected application table entry a number of threads to run; and

(b) for each of the number of threads to run:

(i) running a thread initialize function referenced by the selected application table entry;

(ii) running the sub-application, and

(iii) running a thread terminate function referenced by the selected application table entry.

**Claim 6.** The computer-implemented method of Claim 1 further comprising:  
collecting data specifying that a sub-application should not be run; and

wherein selecting the application table entry comprises selecting an application table entry other than one that references the specified sub-application.

**Claim 7.** The computer-implemented method of Claim 1 further comprising:  
collecting data specifying a value of a parameter;  
collecting data specifying a sub-application; and  
wherein processing the selected application table entry further comprises:  
if the application table entry being processed references the specified sub-application, then using the specified value of the parameter.

**Claim 9.** The computer-implemented method of Claim 1 wherein the error response action is in the set: break into a debugger, exit without clean up; terminate all threads; exit immediately.

**(b) Claims 8 and 11-34 have been cancelled.**

**(c) New claims 35-42 have been added as follows:**

**Claim 35.** A computing system including a processing unit and memory for running an application using a single framework module including a framework data structure, the framework data structure including an application table and a parameter table, the application table including application table entries, the parameter table including

parameter table entries, the memory storing instructions that, when executed by the processing unit, cause the processing unit to:

- (a) select an application table entry;
- (b) collect data specifying a type of error;
- (c) collect data specifying a sub-application referenced by the selected application table entry;
- (d) collect data specifying an error response action; and
- (e) process the selected application table entry, the processing comprising:
  - (i) running a global initialize function referenced by the selected application table entry, the global initialize function operable to initialize a plurality of threads of the sub-application;
  - (ii) running the sub-application referenced by the selected application table entry with one or more parameters referenced by one or more parameter table entries;
  - (iii) if the application table entry being processed references the specified sub-application, and if the specified sub-application generates an error of the specified type, then performing the specified error response action; and
  - (iv) running a global terminate function referenced by the selected application table entry, the global terminate function operable to terminate the plurality of threads of the sub-application referenced by the selected application table entry.

**Claim 36.** The computing system of Claim 35 wherein at least one of the global initialize and the global terminate functions is a NULL function.

**Claim 37.** The computing system of Claim 35 wherein the instructions stored in the memory when executed by the processing unit cause the processing unit to:

run a module initialize function referenced by the framework module; and  
run a module terminate function referenced by the framework module.

**Claim 38.** The computing system of Claim 35 wherein running the sub-application comprises:

- (a) accessing from the selected application table entry a number of threads to run; and
- (b) for each of the number of threads to run:
  - (i) running a thread initialize function referenced by the selected application table entry;
  - (ii) running the sub-application, and
  - (iii) running a thread terminate function referenced by the selected application table entry.

**Claim 39.** The computing system of Claim 35 wherein the instructions stored in the memory when executed by the processing unit cause the processing unit to:

select each application table entry in the application table; and  
process each selected application table entry.

**Claim 40.** The computing system of Claim 35 wherein the instructions stored in the memory when executed by the processing unit cause the processing unit to:

- collect data specifying that a sub-application should not be run; and
- wherein selecting the application table entry comprises selecting an application table entry other than one that references the specified sub-application.

**Claim 41.** The computer-implemented method of Claim 35 wherein the instructions stored in the memory when executed by the processing unit cause the processing unit to:

- collect data specifying a value of a parameter;
- collect data specifying a sub-application; and
- wherein processing the selected application table entry further comprises:
  - if the application table entry being processed references the specified sub-application, then using the specified value of the parameter.

**Claim 42.** The computing system of Claim 35 wherein the error response action is in the set: break into a debugger, exit without clean up; terminate all threads; exit immediately.



3. **REASONS FOR ALLOWANCE:**

The following is an examiner's statement of reasons for allowance:

The prior art does not expressly teach or render obvious the invention as recited in independent claims 1 and 35.

The features as recited in independent claims 1 and 35 "*collecting data specifying a sub-application referenced by the selected application table entry; collecting data specifying an error response action; running a global initialize function referenced by the selected application table entry, the global initialize function operable to initialize a plurality of threads of the sub-application; and running a global terminate function referenced by the selected application table entry, the global terminate function operable to terminate the plurality of threads of the sub-application*", when taken in the context of the claims as a whole, was not uncovered in the prior art teachings.

Nor were references uncovered that would have provided a basis of evidence for asserting a motivation that one of ordinary skill level in the art at the time the invention was made, knowing of *a method for running an application* in this specific environment, would have integrated or modified to teach *the computer-implemented method for running an application using a single framework module including a framework data structure, the framework data structure including an application table*

*and a parameter table* with the specific features as recited in the context of independent claims 1 and 35.

Dependent claims are allowed as they depend upon allowable independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### **CONTACT INFORMATION**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM - 6:00PM. The examiner can also be reached on alternative Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM THOMSON can be reached at (571) 272-3718.

The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

**Any response to this action should be mailed to:**

Commissioner for patents

P O Box 1450

Alexandria, VA 22313-1450

A handwritten signature in black ink, reading "Van H. Nguyen". The signature is fluid and cursive, with a long horizontal stroke at the end.

Van H. Nguyen  
Patent Examiner, AU 2194